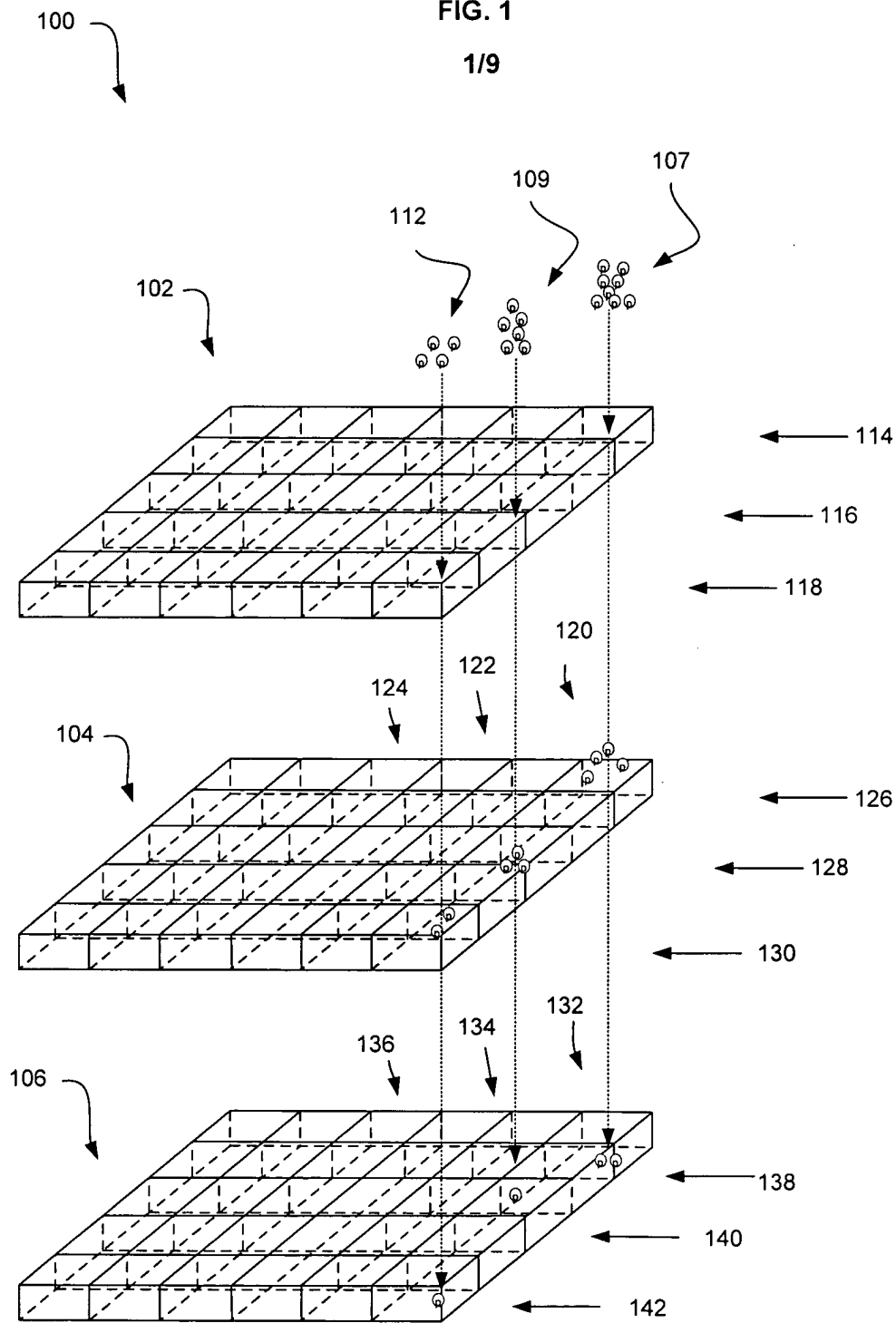


FIG. 1

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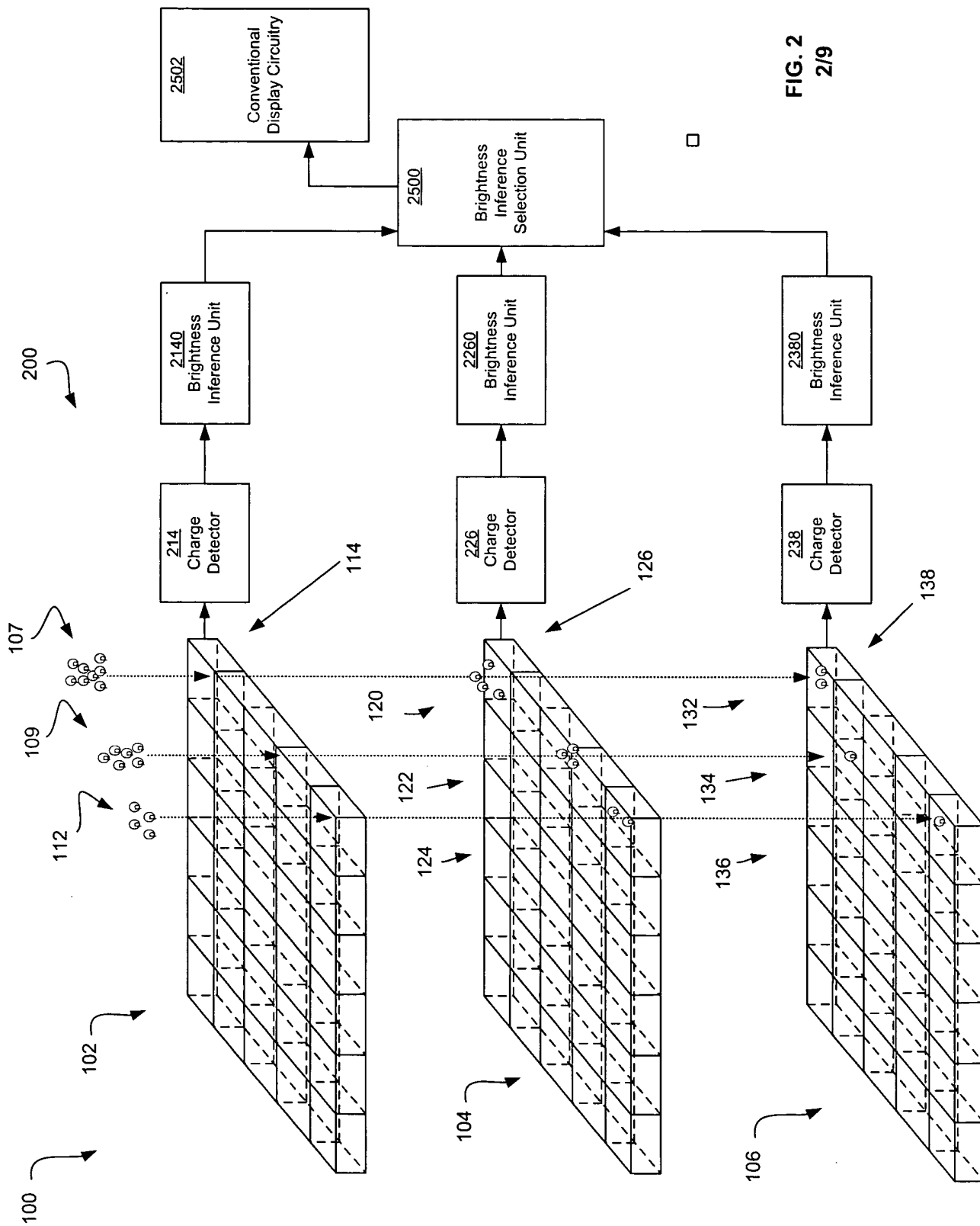


FIG. 2
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FIG. 3
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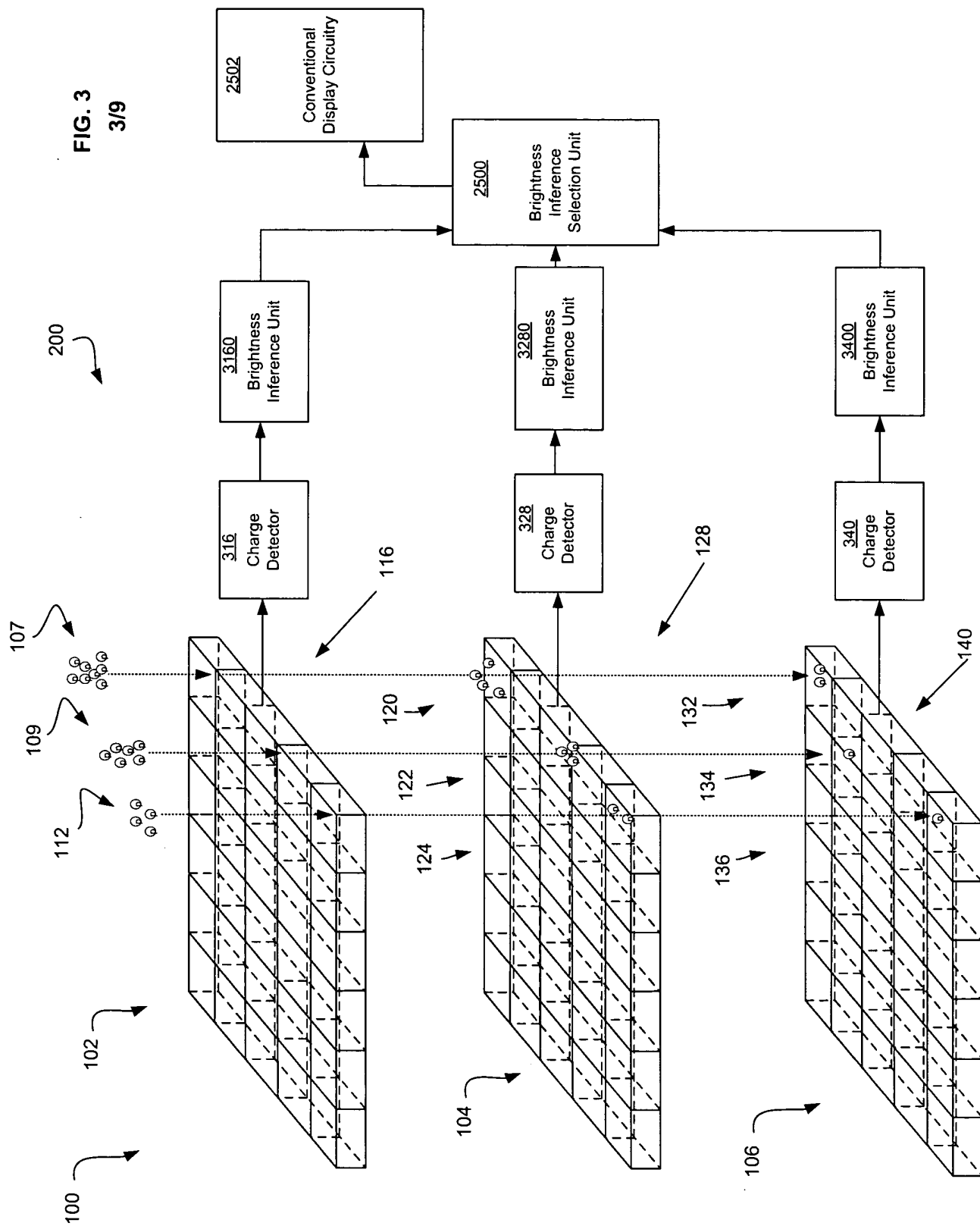


FIG. 4

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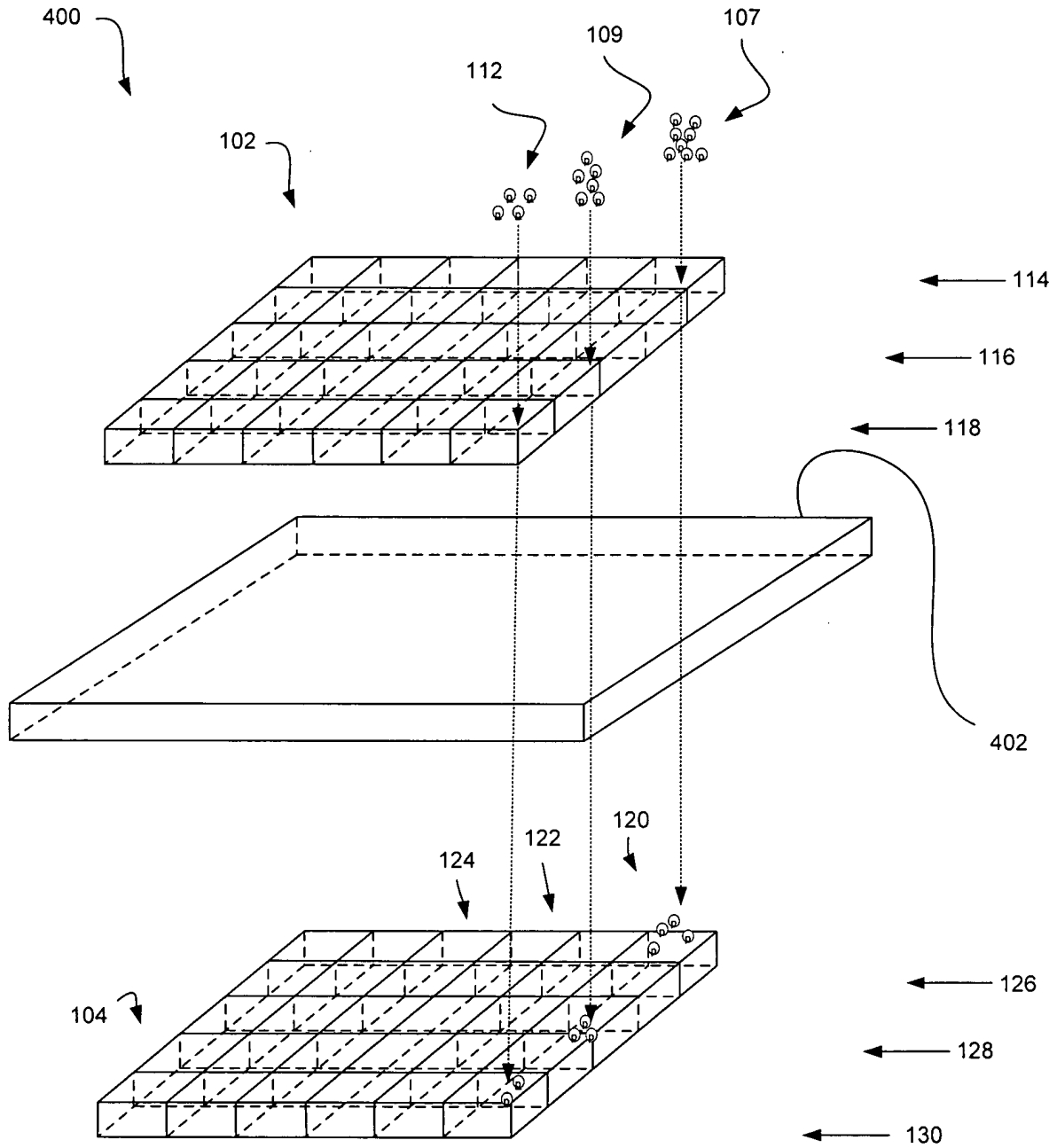


FIG. 5

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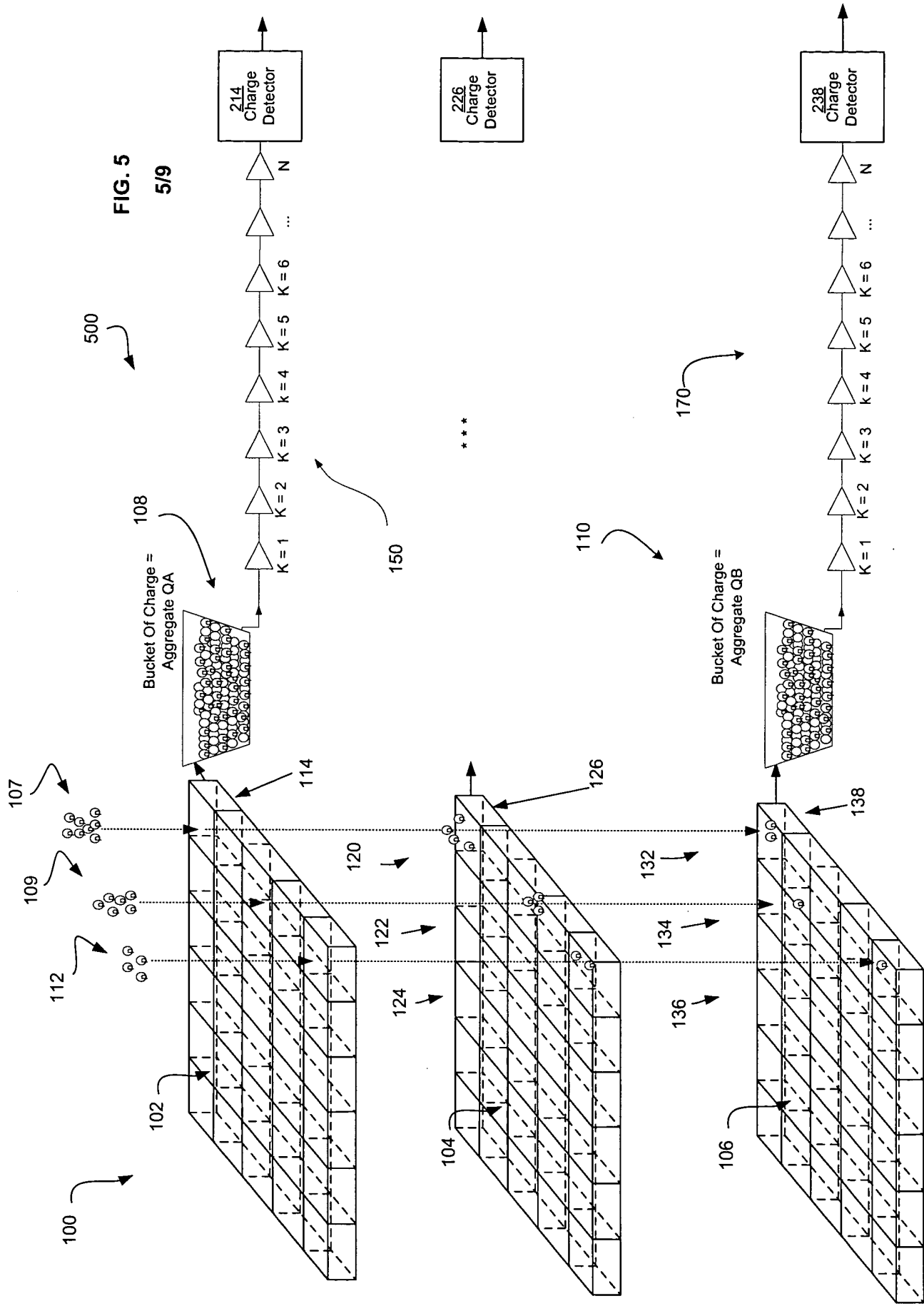


FIG. 6

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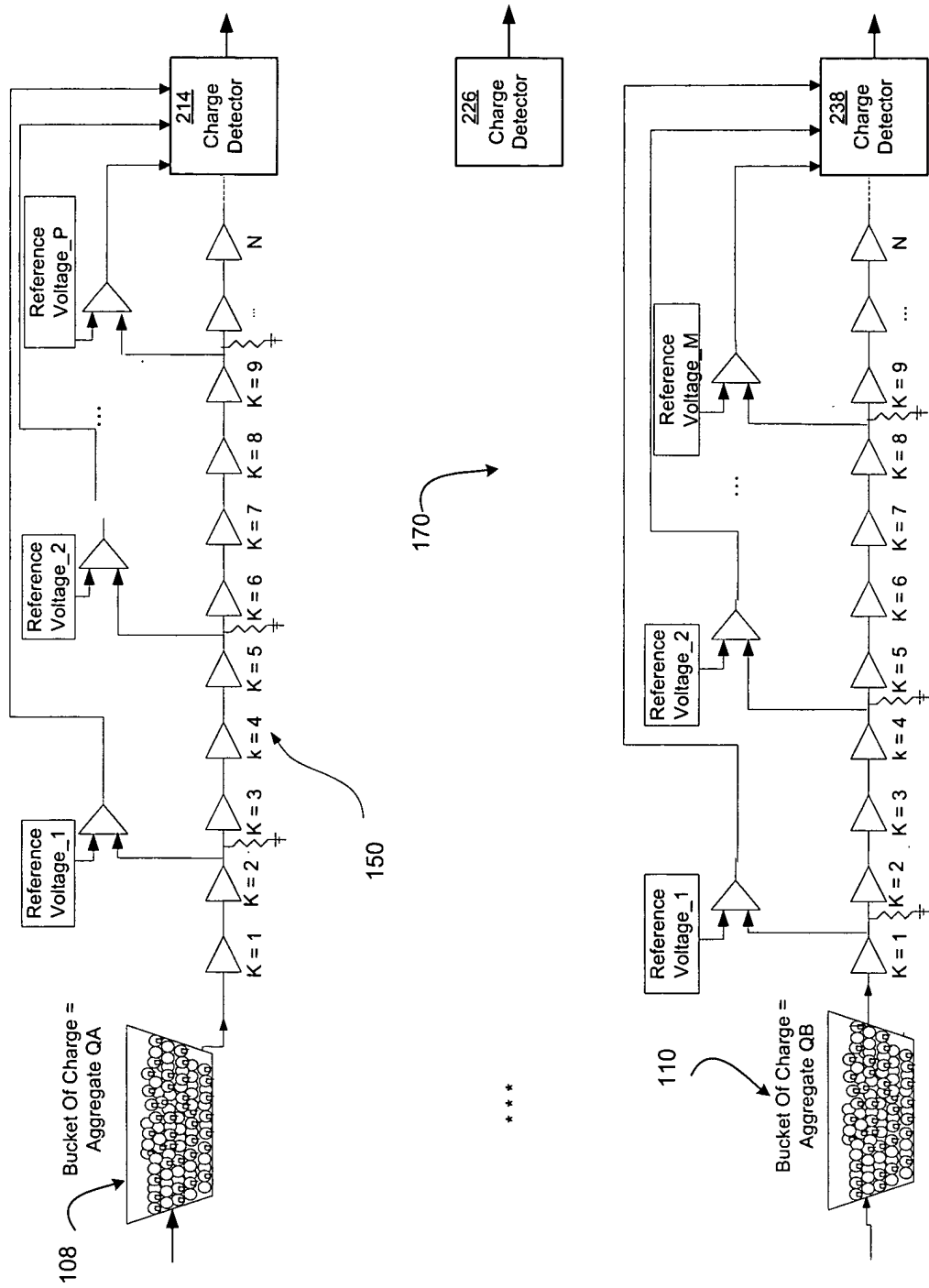
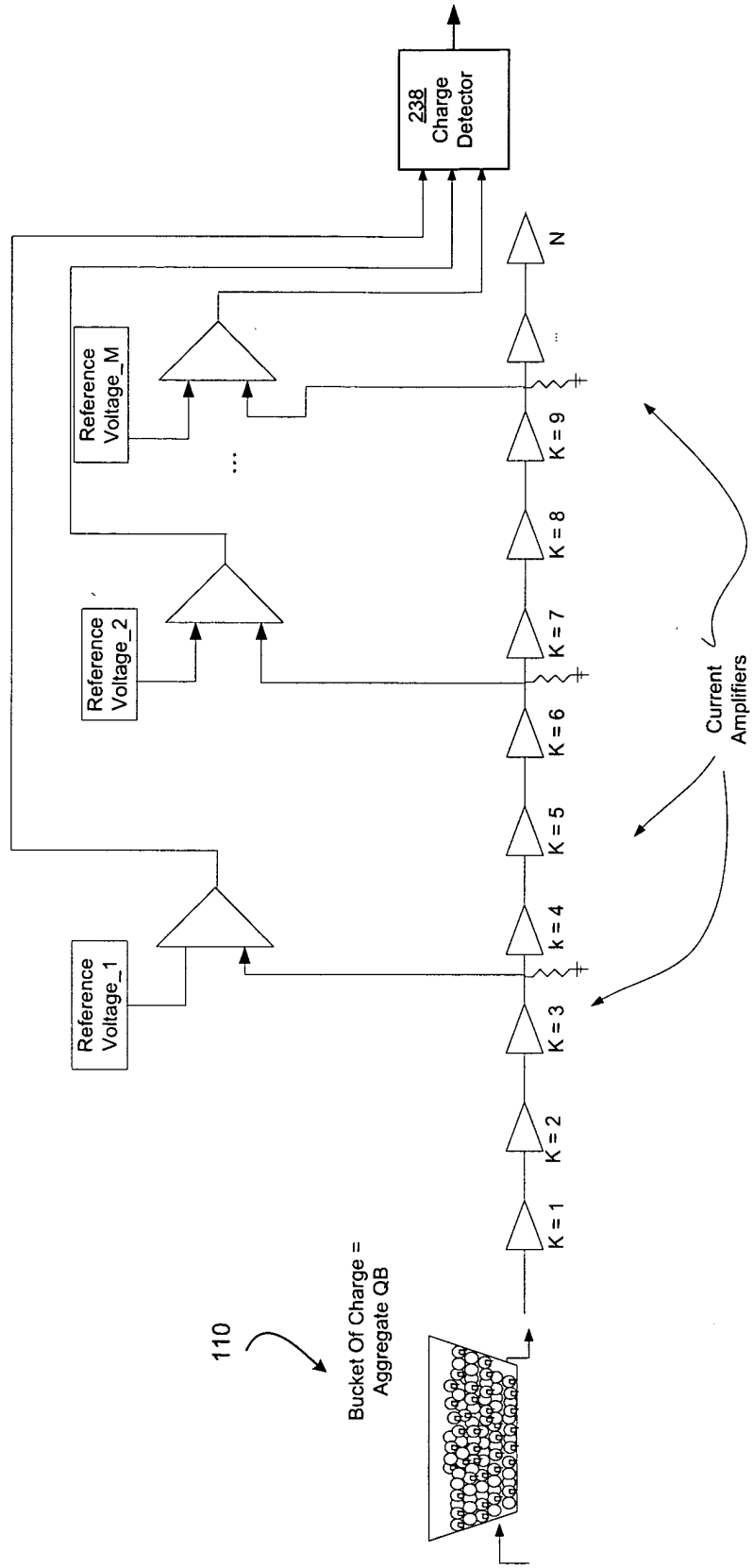


FIG. 7
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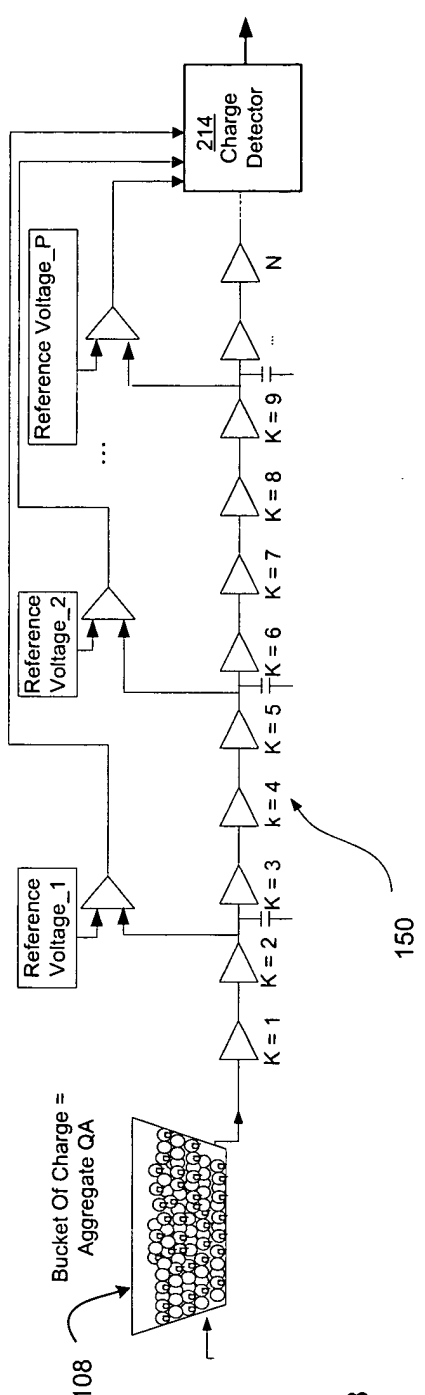
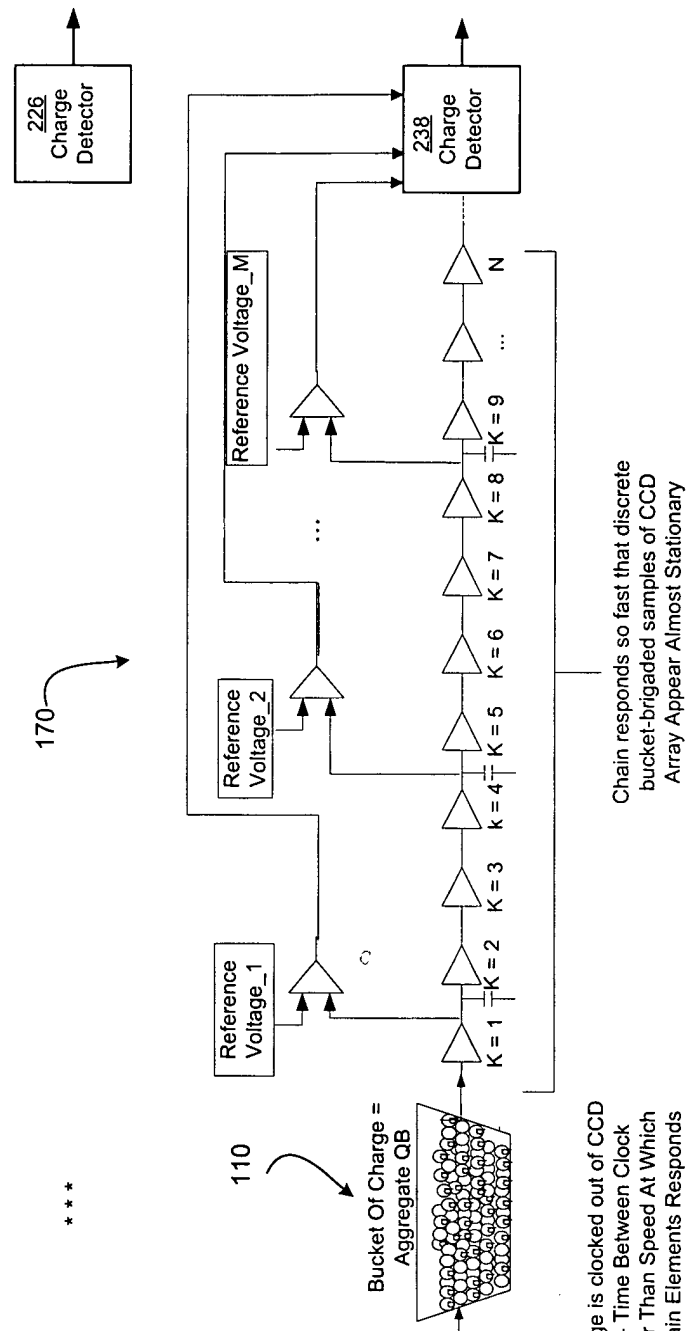


FIG. 8
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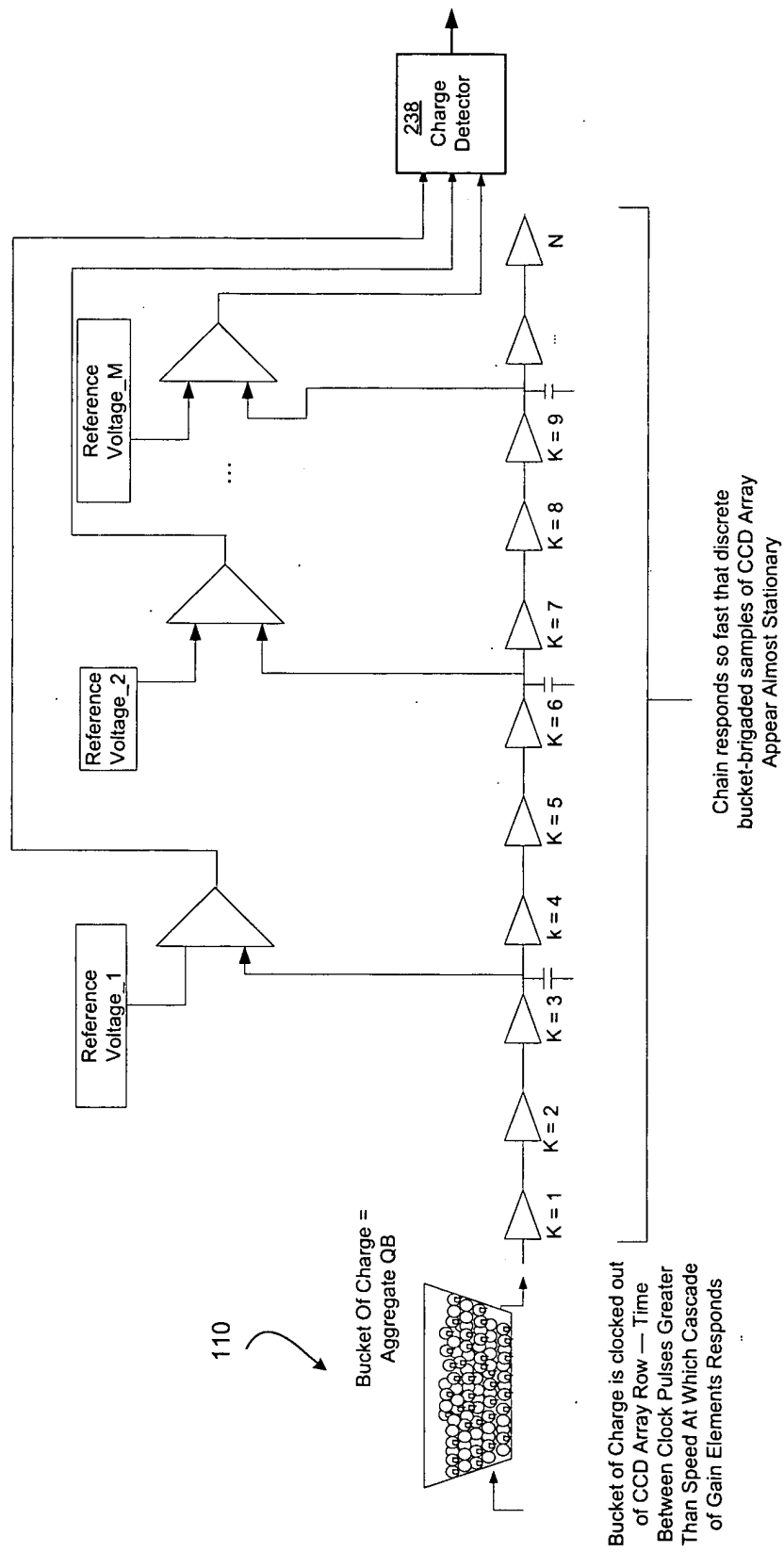


Bucket of Charge is clocked out of CCD
Array Row — Time Between Clock
Pulses Greater Than Speed At Which
Cascade of Gain Elements Responds

FIG. 9

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Bucket Of Charge =
Aggregate QB

Bucket of Charge is clocked out
of CCD Array Row — Time
Between Clock Pulses Greater
Than Speed At Which Cascade
of Gain Elements Responds

Chain responds so fast that discrete
bucket-brigaded samples of CCD Array
Appear Almost Stationary

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Charge
Detector

Reference
Voltage 1

Reference
Voltage 2

Reference
Voltage M

N

...

K = 9

K = 8

K = 7

K = 6

K = 5

K = 4

K = 3

K = 2

K = 1